

Pillsbury
Winthrop
Shaw
Pittman

2475 Hanover Street
Palo Alto, CA 94304-1114

Tel 650.233.4500
Fax 650.233.4545
www.pillsburylaw.com

RECEIVED
CENTRAL FAX CENTER

OCT 23 2006

October 5, 2006

David H. Jaffer
Phone: 650.233.4510
david.jaffer@pillsburylaw.com

067173-0305340

VIA FACSIMILE (571/273-8300)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Attn.: Brandi N. Thomas, Examiner, Art Unit 2873
Alicia Harrington, Primary Examiner, Art Unit 2873

Re: U.S. Patent Application Serial No. 10/646,525 for CONTINUOUS
DIRECT-WRITE OPTICAL LITHOGRAPHY

Dear Commissioner:

We request a telephone interview with the Examiner and Primary Examiner for this application. We have reviewed the Office Action mailed August 21, 2006, and believe that the Examiner has not understood our previous response and erred procedurally in the Office Action. The purpose of the interview is to direct the Examiner to our previous response, which highlights the differences between the cited art and the claims in this application, to gain an understanding of why the Examiner believes those arguments do not overcome the cited art, and to address the procedural errors in the Office Action.

Please call me to arrange a convenient interview time. John Macaulay, a consultant for the owner of this application, and I will attend the telephone interview. Any time after 9 A.M. Pacific time on a Friday or after 12:30 P.M. Pacific time on a Wednesday work best for our schedules.

The reasons for requesting the interview are summarized below.

1. The Examiner has not responded to several of Applicant's arguments which traverse the previous rejection of claims.

In paragraph 9 of the Office Action dated August 21, 2006, the Examiner argues that Applicant's arguments with respect to claims 23-25, 37-44, 63-68, and 80-95 have

RECEIVED
CENTRAL FAX CENTER

OCT 23 2006

Commissioner for Patents

October 5, 2006

Page 2

been considered but are moot in view of new grounds of rejection. The Examiner is required to address any arguments presented by Applicant which are still relevant to any references being applied. See MPEP §707.07(f). The Examiner failed to address several of Applicant's arguments that are still relevant. In particular, they are the following:

- a. Applicant argued that an obviousness rejection cannot be made with Jain et al. in combination with any other reference for blurring the image. Since Jain et al. teaches away from having a blurred image at the substrate, it is improper to combine Jain et al. with a reference which refers to a blurred image at the substrate. This argument applies to the patentability of all claims currently under consideration. See Applicant's arguments for patentability of independent claim 23 in Applicant's response/amendment filed June 13, 2006.
- b. Applicant argued that the Examiner misinterpreted Takahashi et al. Applicant asserted that Takahashi et al. does not disclose a spatial light modulator and does not disclose projection optics mounted on a stage. These arguments apply to the patentability of claims 38, 39, and 94. See Applicant's arguments for patentability of independent claim 23 and dependent claims 38 and 39 in Applicant's response/amendment filed June 13, 2006.
- c. Applicant argued that the examiner misinterpreted Eggers et al. Applicant asserted that Eggers et al. discloses only a single spatial light modulator and does not disclose particular arrangements of a plurality of spatial light modulators. These arguments apply to the patentability of claims 83-88 and 90-92. See Applicant's arguments for patentability of dependent claims 83, 84, 86-88, and 90-92 in Applicant's response/amendment filed June 13, 2006.

2. Misinterpretation of newly cited art, U.S. Patent No. 6,229,649 to Woods et al.

In the Office Action dated August 21, 2006, the Examiner stated that Woods et al. discloses "imaging optics (10) configured to project a blurred image (12) of said spatial light modulator (32) on said substrate (38)." The Examiner refers to Fig. 1 of Woods et al. The Examiner has misinterpreted Woods et al. Fig. 1 of Woods et al. actually represents the following: A video camera (10) captures a blurred image (12). This video stream of blurred image (12) is fed to and displayed on SLM (32). The rest of the apparatus is designed to remove blur and distortion from the image displayed on the SLM

Commissioner for Patents

October 5, 2006

Page 3

(32), resulting in an image on an output plane (38) with reduced blur and distortions. The purpose of the invention of Woods et al. is to remove blur, aberrations and distortions from images. The SLMs (32), (22) and (22') are used, respectively, for (1) displaying the image which will be improved, (2) improving the image by phase filtering and (3) improving the image by amplitude filtering. Once again we have a reference that teaches away from blurring the image projected on to the substrate. Furthermore, Woods et al. is a patent in the field of image recovery and is not directly related to lithography. The Examiner provided no motivation for someone of ordinary skill in the art of optical lithography to look to the field of image recovery.

3. Errors in Arguments for Rejection of Claims 88, 90, 91, and 92.

At pages 10-12 of the Office Action dated August 21, 2006, the Examiner presents arguments for rejection of claims 88, 90, 91, and 92. The Examiner cites Takahashi et al. However, it appears from the beginning of the Examiner's description in numbered paragraph 6 on page 9 of the Office Action that the Examiner really means to cite Woods et al. Applicant wishes to confirm that the reference the Examiner intends to combine with Jain et al. in the rejection of these claims is Woods et al.

4. Premature Final Rejection.

The Examiner's final rejection of unamended independent claims 23 and 82, and of claims 24-35, 37-42, 80-81, 83-95 which depend on claims 23 and 82, is based on new grounds and thus is improper under Patent Office procedure. See MPEP §706.07(a). We request reconsideration of the finality of the Office Action.

The Examiner has introduced new grounds for rejecting independent claims 23 and 82, and the various dependent claims. The newly cited art is U.S. Patent No. 6,229,649 to Woods et al., which the Examiner cited for the first time in the latest Office Action. These claims are now rejected as unpatentable over Jain et al. in view of Woods et al. The Examiner clearly identifies the rejection to be on new grounds. See paragraph 9 of the Office Action dated August 21, 2006. A final rejection should not have been issued because these claims were not amended in Applicant's response to the previous Office Action, and Applicant did not submit the Woods et al. reference in an Information Disclosure Statement. See MPEP §706.07(a).

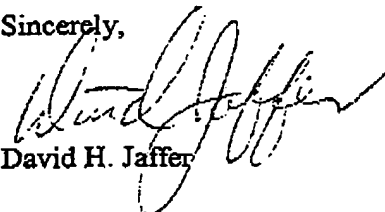
Commissioner for Patents

October 5, 2006

Page 4

Please contact me as soon as possible so that we can arrange a date for the requested telephone interview.

Sincerely,

A handwritten signature in dark ink, appearing to read "David H. Jaffer", is written over the typed name.

David H. Jaffer

DHJ:dld